

* Refer to parts list on page 14.

KA-1080

CONTENTS / ACCESSORIES / CONTROLS

Contents

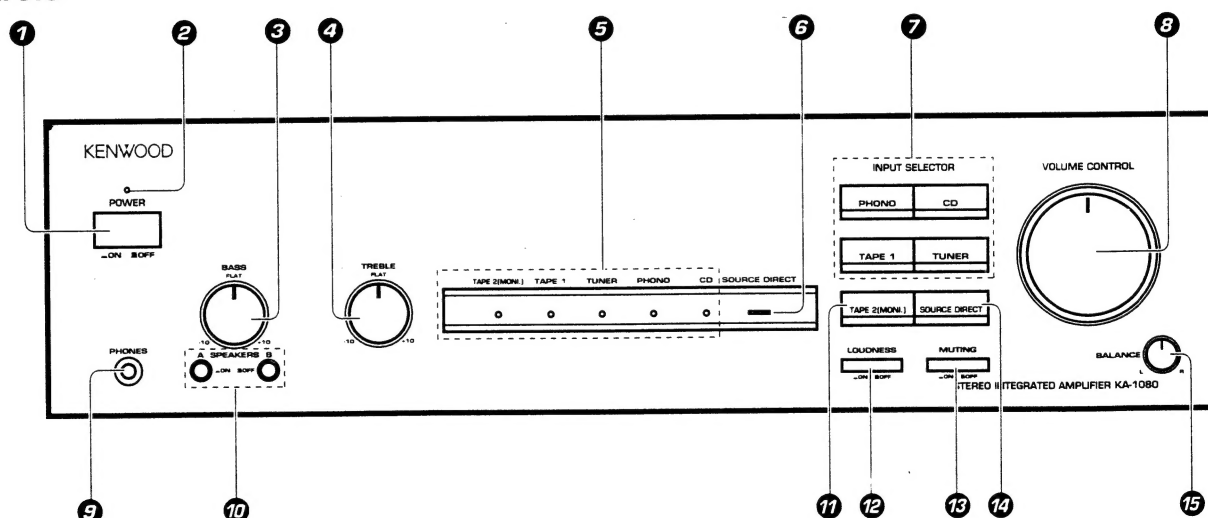
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Accessories

AC plug adaptor(1)
(E03-0115-05)
M type only

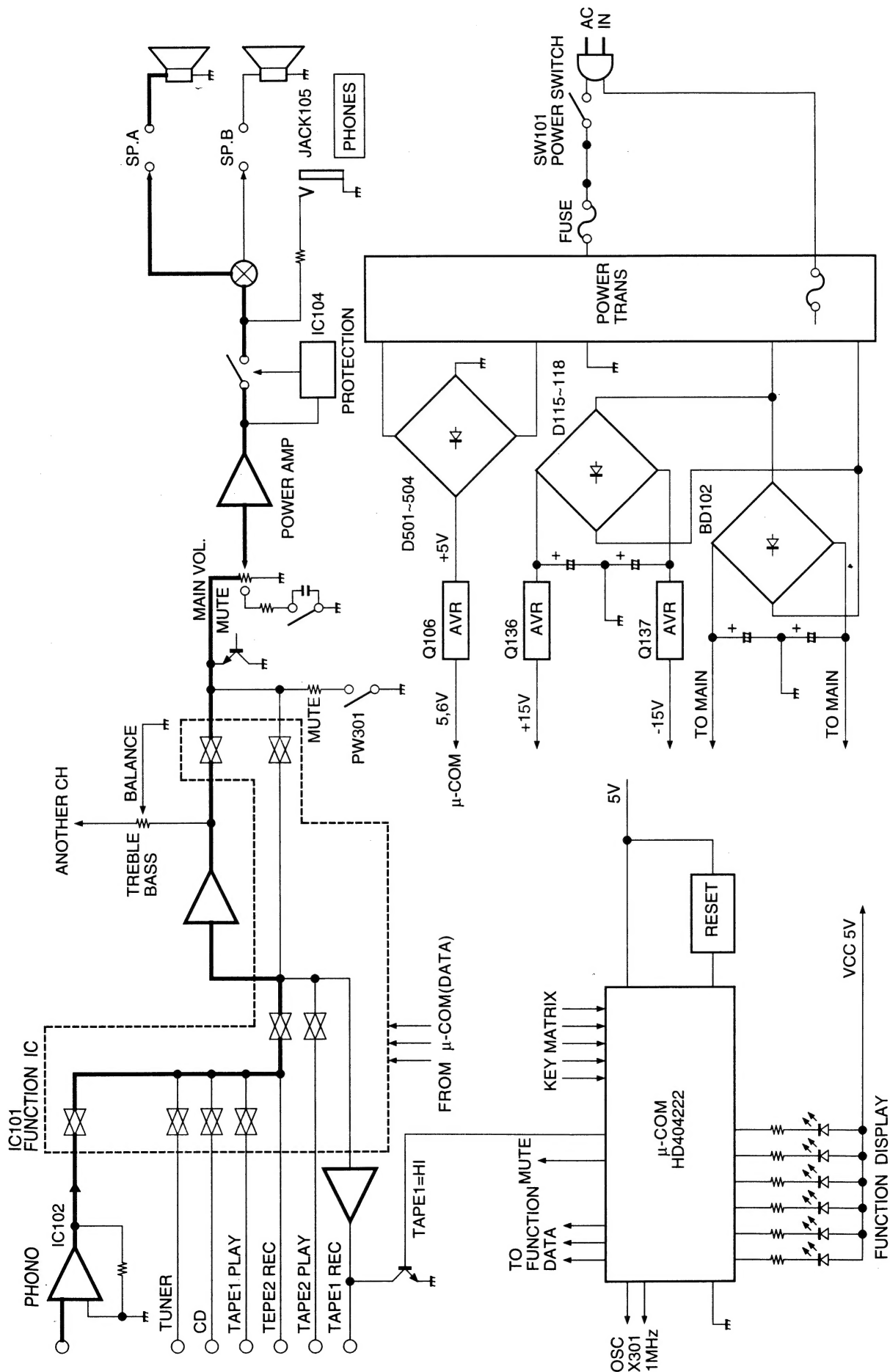


Controls



- 1 POWER key**
Press to turn on/off the power.
- 2 POWER indicator**
- 3 BASS knob**
To adjust low frequencies.
- 4 TREBLE knob**
To adjust high frequencies.
- 5 INPUT indicator**
An indicator lights for the source selected with the INPUT SELECTOR keys.
- 6 SOURCE DIRECT indicator**
- 7 INPUT SELECTOR keys**
Press to select the input sources.
- 8 VOLUME CONTROL knob**
Adjust the volume.
- 9 PHONES jack**
Used for headphone listening.
- 10 SPEAKERS A/B switches**
Press to select the A and/or B speaker systems.
- 11 TAPE 2(MONI.) key**
Press to monitor the sound being recorded.
- 12 LOUDNESS key**
Use to emphasize deep bass sounds.
- 13 MUTING key**
Mute the sound temporarily.
- 14 SOURCE DIRECT key**
To listen to a source with high quality sound.
- 15 BALANCE knob**
Adjust the volume balance between left and right.

BLOCK DIAGRAM

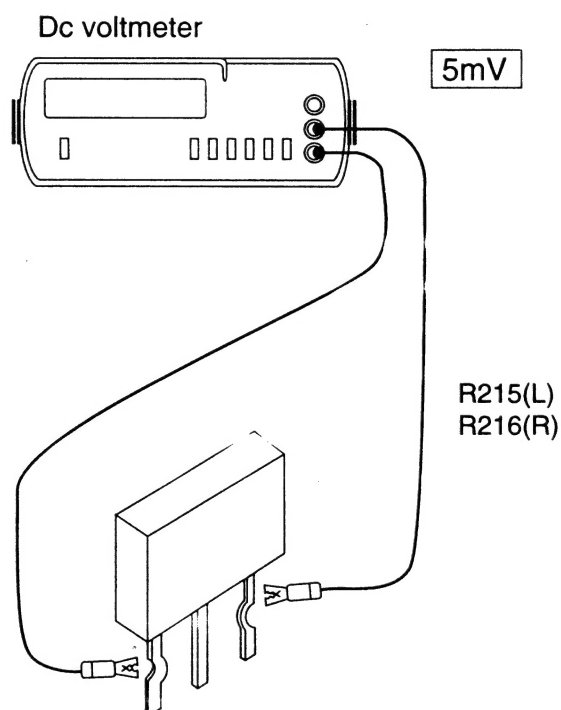


KA-1080

ADJUSTMENT

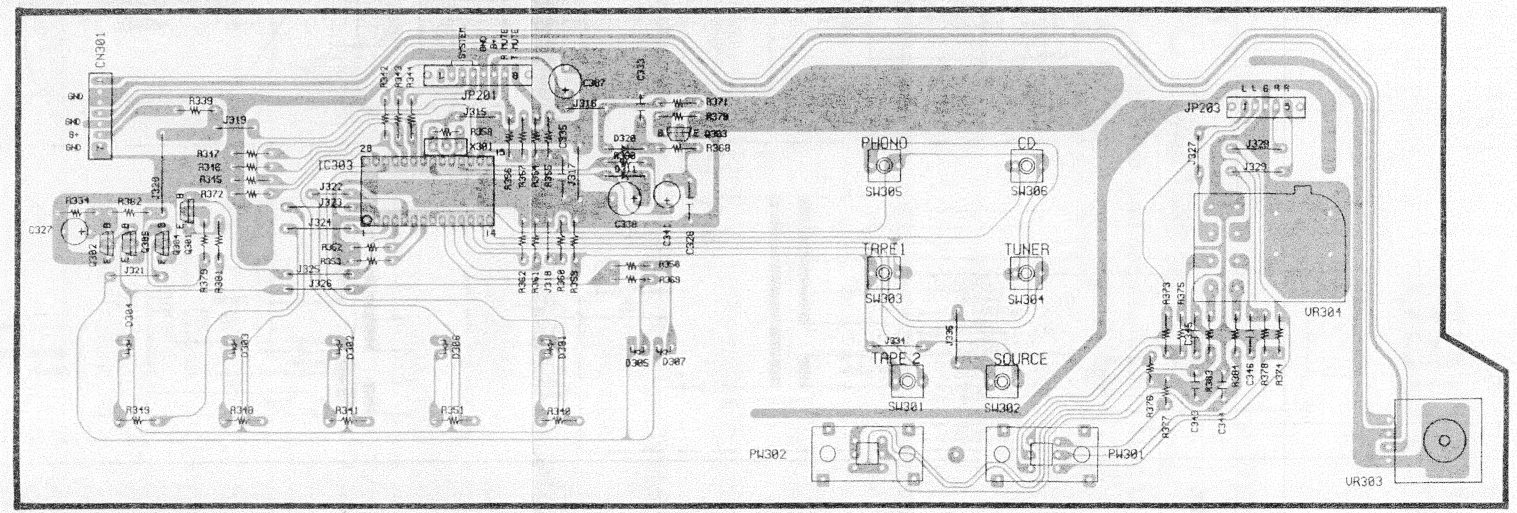
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following : POWER : ON SPEAKER : B SELECTOR : PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter between R215 (Lch), R216 (Rch). (MAIN PCB)	VOLUME : 0	VR101 (L) VR102 (R) (MAIN PCB)	5mV	(a)

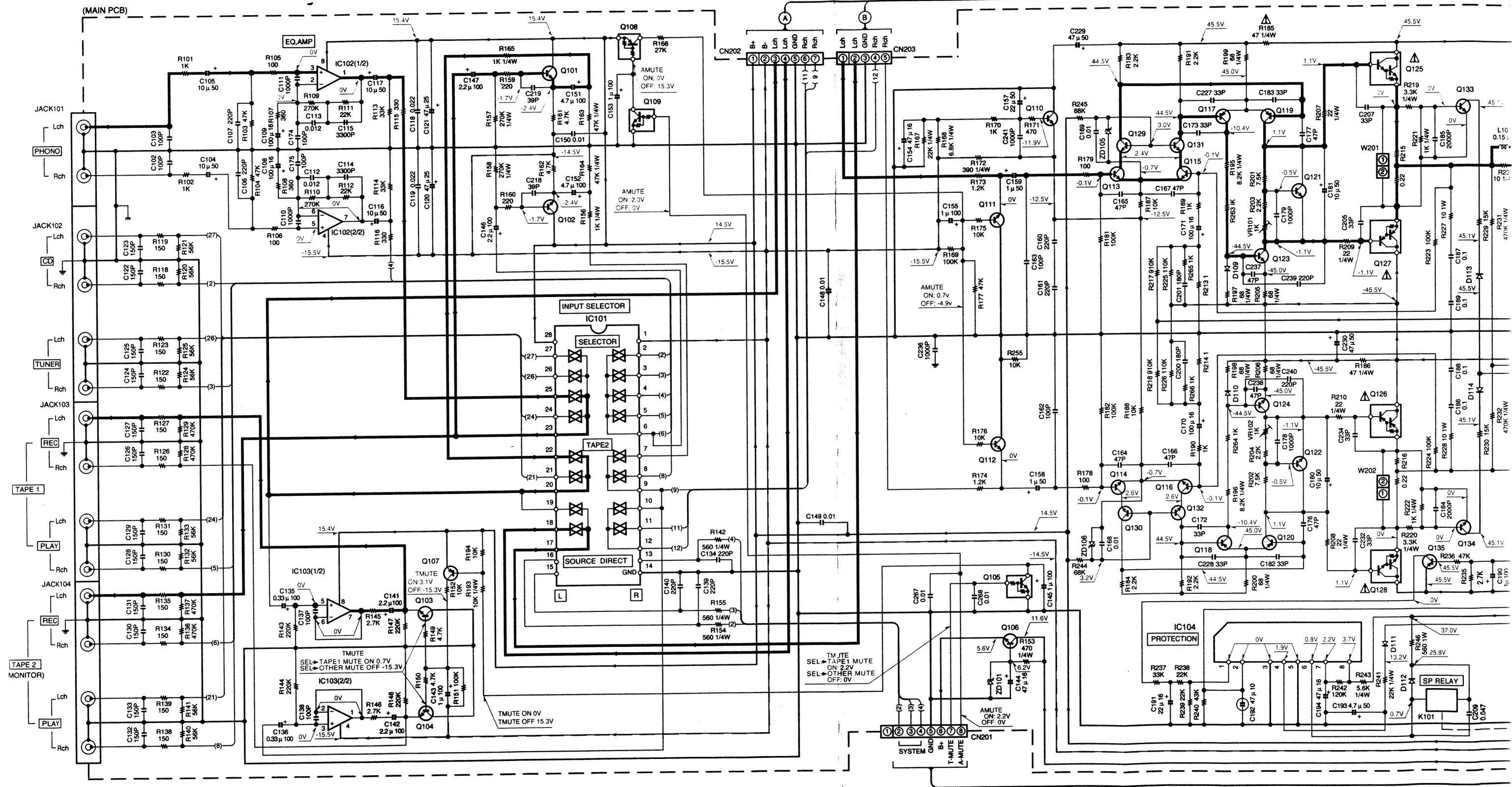
(a)



Caution :

Signal ground floats from chassis ground. Please connect the cold lead of tester or oscilloscope to the cold terminal of speaker or input jack if check and/or measure the voltage. (Don't connect ground of unit.)

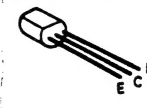




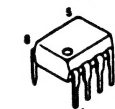
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

2SC2878



NJM4565D-D



DTA114ES
DTA124ES
DTC114TS
DTC124ES
2SC1740SR

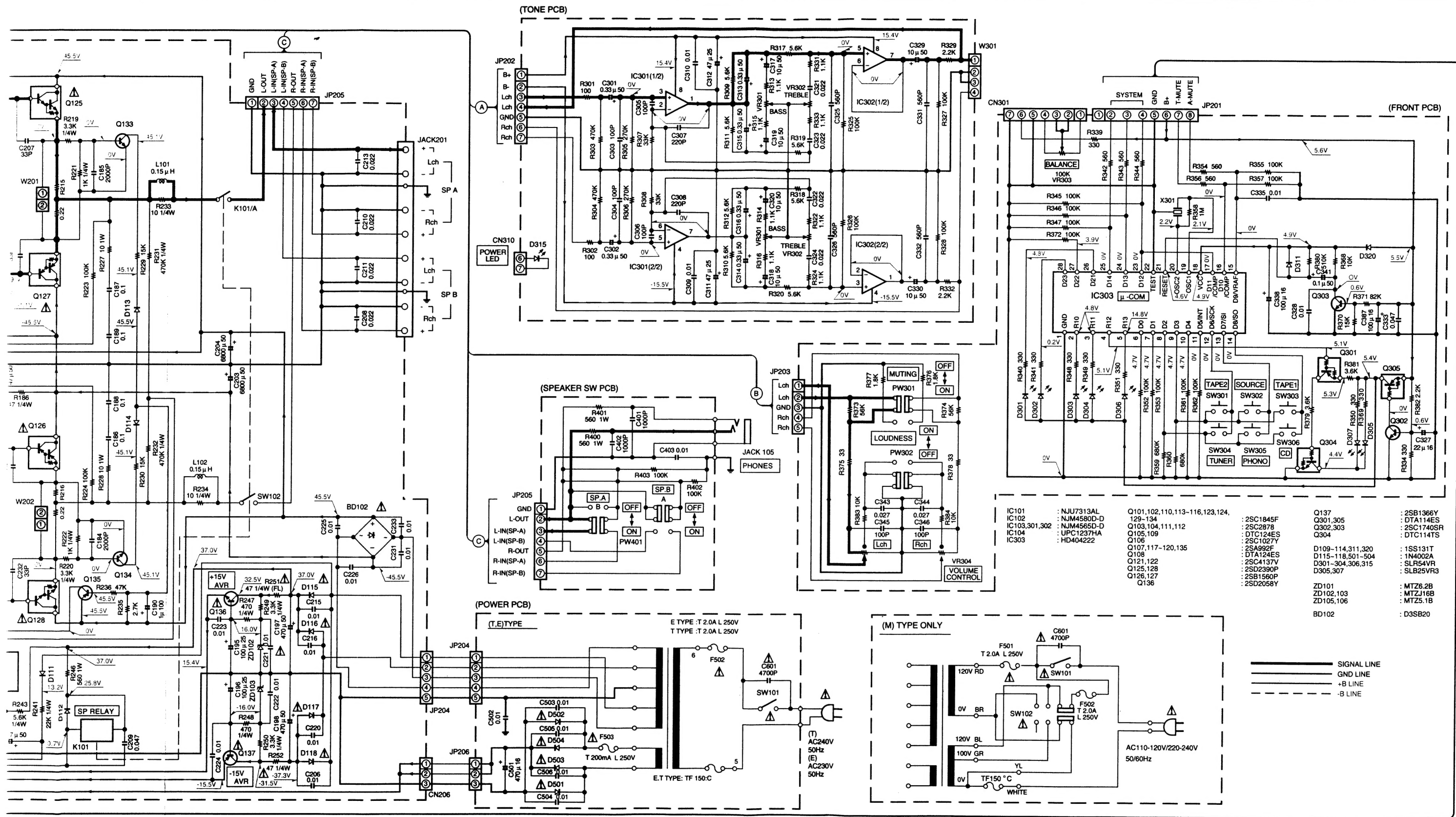


NJM4580D-D



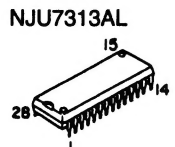
UPC1237HA



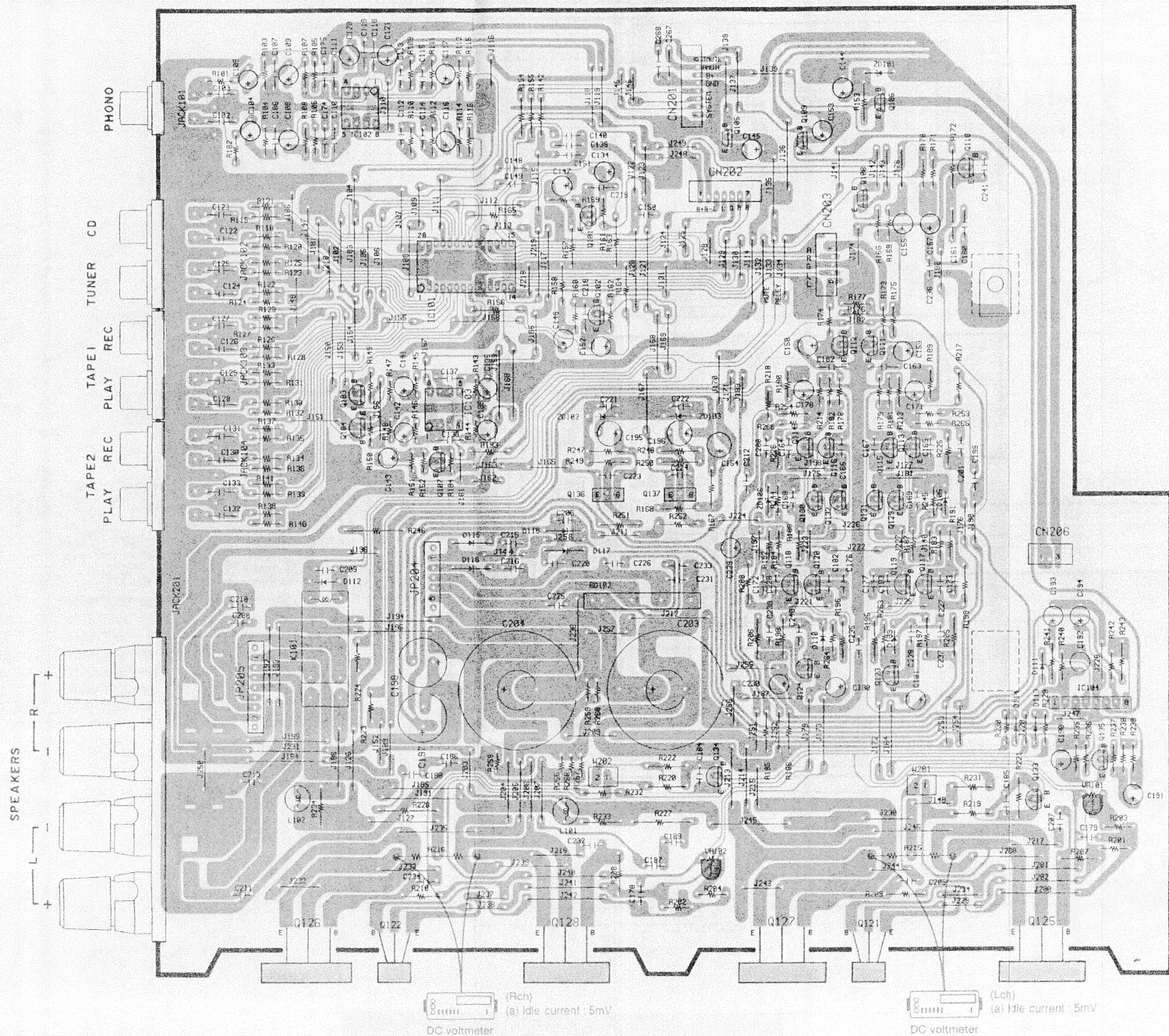


- | | | | | |
|----------------------------|---------------------------------------|----------|------------------|-----------|
| IC101 : NJU7313AL | Q101,102,110,113-116,123,124, 129-134 | 2SC1845F | Q137 | 2SB1366Y |
| IC102 : NJM4580D-D | Q103,104,111,112 | 2SC2878 | Q301,305 | DTA114ES |
| IC103,301,302 : NJM4565D-D | Q105,109 | DTC124ES | Q302,303 | 2SC17405R |
| IC104 : UPC1237HA | Q106 | 2SC1027Y | Q304 | DTC114TS |
| IC303 : HD404222 | Q107,117-120,135 | 2SA992F | | |
| | Q108 | DTA124ES | | |
| | Q121,122 | 2SC4137V | | |
| | Q125,128 | 2SD2390P | | |
| | Q128,127 | 2SB1560P | | |
| | Q136 | 2SD2058Y | | |
| | | | D109-114,311,320 | 1SS131T |
| | | | D115-118,501-504 | 1N4002A |
| | | | D301-304,306,315 | SLR54VR |
| | | | D305,307 | SLB25VR3 |
| | | | | |
| | | | ZD101 | MTZ6.2B |
| | | | ZD102,103 | MTZJ16B |
| | | | ZD105,106 | MTZ5.1B |
| | | | BD102 | D3SB20 |

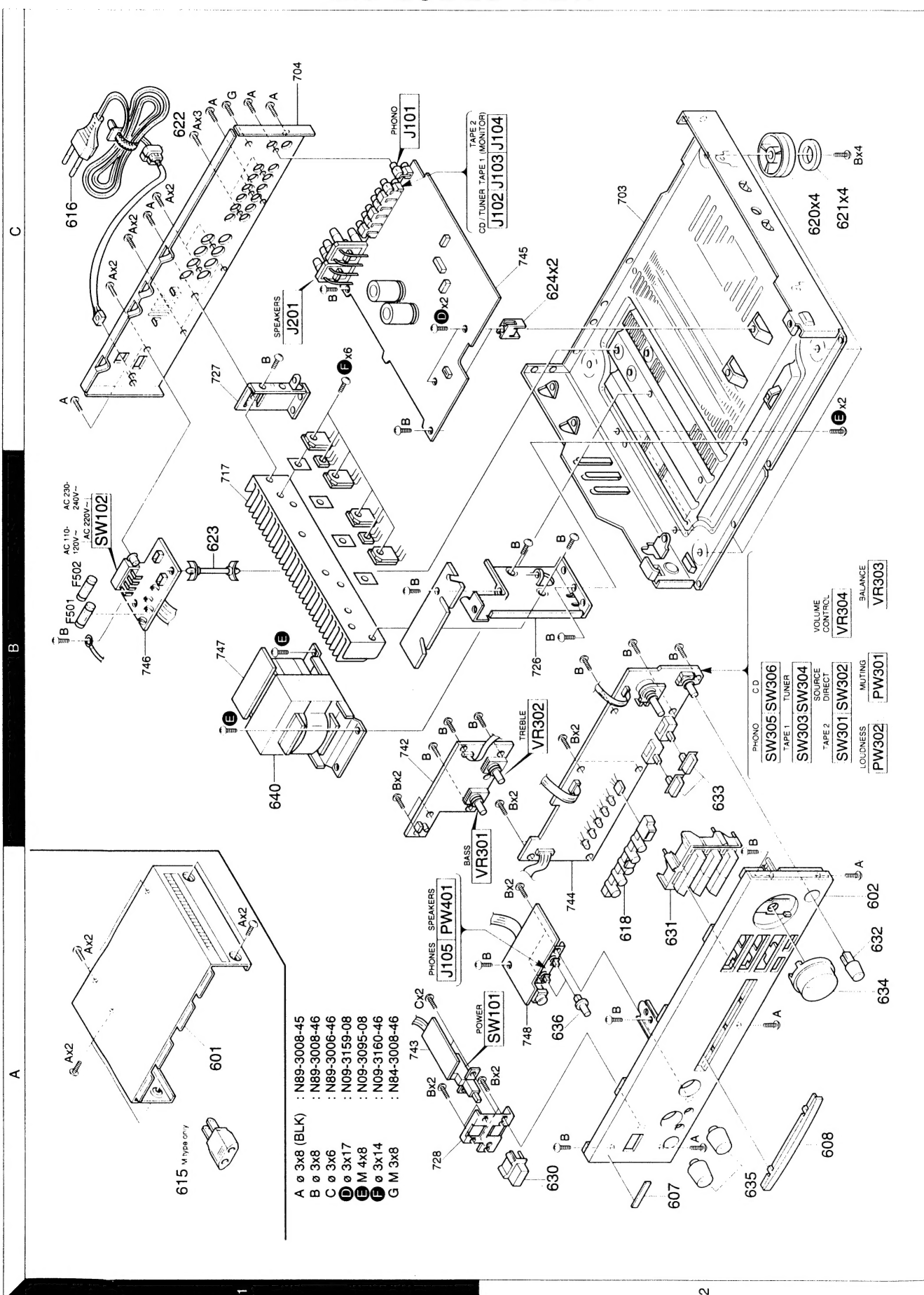
— SIGNAL LINE
 --- GND LINE
 --- +B LINE
 --- -B LINE



PC BOARD (Component side view)



EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

KA-1080

PARTS LIST

1
* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KA-1080						
601	1A	*	A01-3357-08	METALLIC CABINET	ET T M	
602	2A	*	A60-0998-08	PANEL		
607	2A	*	B43-0302-04	KENWOOD BADGE		
608	2A	*	B10-2266-08	FRONT GLASS		
-	-	*	B46-0310-03	WARRANTY CARD	E M E	
-	-	*	B60-2770-08	INSTRUCTION MANUAL(EN)		
-	-	*	B60-2771-08	INSTRUCTION MANUAL(EN/SP/C)	M T EM	
-	-	*	B60-2772-08	INSTRUCTION MANUAL(F/G/D//SP)		
-	-	*	B60-2773-08	INSTRUCTION MANUAL(TAIWAN)	ET M	
-	-	*	B60-2774-08	INSTRUCTION MANUAL(PO)		
615	1A	*	E03-0115-05	AC PURG ADAPTOR	ET	
616	1C	*	E30-2718-08	AC POWER CORD		
616	1C	*	E30-2799-08	AC POWER CORD		
-	-	*	H50-2013-08	ITEM CARTON CASE	ET M	
-	-	*	H50-2015-08	ITEM CARTON CASE		
-	-	*	H10-7232-08	POLYSTYRENE FOAMED FIXTURE	ET	
-	-	*	H25-1572-08	PROTECTION BAG(MANUAL)		
-	-	*	H25-1587-08	PROTECTION BAG(SET)		
618	2A	*	J19-5724-08	HOLDER	ET M	
620	2B,2C	*	J02-1166-08	FOOT		
621	2C	*	G13-0534-08	CUSHION(FOOT)		
622	1C	*	J42-0200-08	POWER CORD BUSHING		
623	1B	*	J19-3631-08	UNIT HOLDER		
624	2C	*	J19-5725-08	UNIT HOLDER		
630	2A	*	K29-6431-08	K1/OB POWER		
631	2A	*	K29-6474-08	K1/OB INPUT SELECTOR		
632	2A	*	K29-6475-08	K1/OB BALANCE		
633	2B	*	K29-6473-08	KNOB LOUDNESS/MUTING		
634	2A	*	K29-6478-08	KNOB VOLUME CONTROL		
635	2A	*	K29-6476-08	KNOB BASS/TREBLE	ET M	
636	2A	*	K29-6477-08	KNOB SPEAKER A/B		
640	1B	*	L07-2218-08	POWER TRANSFORMER		
640	1B	*	L07-2219-08	POWER TRANSFORMER		
D	-	*	N09-3159-08	TAPTITE SCREW M3X17		
E	-	*	N09-3095-08	TAPTITE SCREW M4X8		
F	-	*	N09-3160-08	TAPTITE SCREW M3X14		
ELECTRICAL UNIT						
C102,103	-		C91-0745-05	CERAMIC	K	
C104,105	-		CE04KW1H100M	ELECTRO		
C106,107	-		C91-0749-05	CERAMIC		
C108,109	-		CE04KW1C101M	ELECTRO		
C110,111	-		C91-0757-05	CERAMIC	J	
C112,113	-		CQ92FM1H123J	MYLAR		
C114,115	-		CQ92FM1H332J	MYLAR		
C116,117	-		CE04KW1H100M	ELECTRO		
C118,119	-		CK14FF1E223Z	CERAMIC	Z	
C120,121	-		CE04KW1E470M	ELECTRO		
C122-133	-		C91-0747-05	CERAMIC	K	
C134	-		C91-0749-05	CERAMIC		
C135,136	-		CE04KW2AR33M	ELECTRO		

L : Scandinavia
Y : PX(Far East, Hawaii)
Y : AAFES(Europe)

K : USA
T : Europe
X : Australia

P : Canada
E : Europe
M : Other Areas

R : Mexico
G : Germany

Δ indicates safety critical components.

PARTS LIST

*** New Parts**
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R400.401			RS14GB3A561J	FL-PROOF RS 560		
VR101,102			R12-1066-05	SEMI-FIXED VARIABLE RESISTOR		
VR301,302		*	R39-0013-08	VARIABLE RESISTOR	J 1W	
VR303			R31-0055-08	VARIABLE RESISTOR	TO NE	
VR304			R39-0005-08	VARIABLE RESISTOR	BALANCE	
PW301,302			S68-0040-08	PUSH SWITCH	VOLUME CONTROL	
PW401			S68-0045-08	PUSH SWITCH		
SW101			S40-1089-05	PUSH SWITCH	POWER	M
SW102			S62-0059-08	SLIDE SWITCH		
SW301-306			S70-0030-08	TACT SWITCH		
BD102			D3SB20	DIODE		
D109-114			1SS131T	DIODE		
D115-118			1N4002A	DIODE		
D301-304		*	SLR54VR	LED		
D305		*	SLB25VR3	LED		
D306		*	SLR54VR	LED		
D307		*	SLB25VR3	LED		
D311			1SS131T	DIODE		
D315			SLR54VR	LED		
D320			1SS131T	DIODE		
D501-504			1N4002A	DIODE		
IC101			NJU7313AL	IC (ANALOG SWITCH)		
IC102			NJM4580D-D	IC (OP AMP X2)		
IC103			NJM4585D-D	IC (OP AMP X2)		
IC104			UPC1237HA	IC (POWER AMP)		
IC301,302			NJM4565D-D	IC (OP AMP X2)		
IC303			HD404222	IC U-COM		
Q101,102			2SC1845F	TRANSISTOR		
Q103,104			2SC2878	TRANSISTOR		
Q105			DTC124ES	TRANSISTOR		
Q106		*	2SC1027Y	TRANSISTOR		
Q107			2SA992F	TRANSISTOR		
Q108			DTA124ES	TRANSISTOR		
Q109			DTC124ES	TRANSISTOR		
Q110			2SC1845F	TRANSISTOR		
Q111,112			2SC2878	TRANSISTOR		
Q113-116			2SC1845F	TRANSISTOR		
Q117-120			2SA992F	TRANSISTOR		
Q121,122			2SC4137V	TRANSISTOR		
Q123,124			2SC1845F	TRANSISTOR		
Q125			2SD2390P	TRANSISTOR		
Q126,127			2SB1560P	TRANSISTOR		
Q128			2SD2390P	TRANSISTOR		
Q129-134			2SC1845F	TRANSISTOR		
Q135			2SA992F	TRANSISTOR		
Q136			2SD2058Y	TRANSISTOR		
Q137			2SB1366Y	TRANSISTOR		
Q301			DTA114ES	TRANSISTOR		
Q302,303			2SC1740SR	TRANSISTOR		
Q304			DTC114TS	TRANSISTOR		
Q305			DTA114ES	TRANSISTOR		
ZD101			MTZ6.2B	ZENER DIODE		
ZD102,103			MTZJ16B	ZENER DIODE		
ZD104,105,106			MTZ5.1B	ZENER DIODE		

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Y: AAFES(Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C2235			CQ92FM1H102J	MYLAR	J	
C2235, 236			CK45FB1H102K	CERAMIC	K	
C2237, 238			CC45FCH1H470J	CERAMIC	J	
C2239, 240			C91-0749-05	CERAMIC	K	
C2241			CK45FB1H102K	CERAMIC	K	
C2261			CK45FB2H103K	CERAMIC	K	
C2267, 268			C91-0769-05	ELECTRO	K	
C301, 302			CE04KW1HR33M	ELECTRO	50WV	
C303, 306			C91-0745-05	CERAMIC	100PF	
C307, 308			C91-0749-05	CERAMIC	220PF	
C309, 310			C91-0769-05	CERAMIC	K	
C311, 312			CE04KW1E470M	ELECTRO	25WV	
C313, 316			CE04KW1HR33M	ELECTRO	0.33UF	
C317-320			CE04KW1H100M	ELECTRO	10UF	
C321-324			CQ92FM1H223J	MYLAR	J	
C325, 326			C91-0754-05	CERAMIC	560PF	
C327			CE04KW1C220M	ELECTRO	22UF	
C328			C91-0769-05	CERAMIC	K	
C329, 330			CE04KW1H100M	ELECTRO	10UF	
C331, 332			C91-0754-05	CERAMIC	560PF	
C333			CK45FF1H473Z	CERAMIC	Z	
C335			C91-0769-05	CERAMIC	K	
C338			CE04KW1C101M	ELECTRO	16WV	
C341			CE04KW1HR10M	ELECTRO	0.10UF	
C343, 344			CQ92FM1H273J	MYLAR	J	
C345, 346			C91-0745-05	CERAMIC	K	
C387			CE04KW1C101M	ELECTRO	100PF	
C401, 402			CK45FB1H102K	CERAMIC	K	
C403			CK45FB1H103K	CERAMIC	K	
C501			CE04KW1C471M	ELECTRO	470UF	
C502-506			CK45FB1H103K	CERAMIC	K	
C601			C91-1441-08	CERAMIC	4700PF	
CN101, 102			J13-0084-08	FUSE CLIP	(F501-503)	
CN310			E40-9986-08	PIN ASSY		
CN310			E40-9970-08	PIN ASSY		
CN310		*	E63-0189-08	PHONO JACK(2P)PHONO		
CN310		*	E63-0186-08	PHONO JACK(4P)CD/TUNER/TAPE		
CN310		**	E63-0190-08	PHONE JACK PHONES		
CN310		**	E70-0077-08	TERMINAL BOARD(8P)SPEAKERS		
CN310			F06-2021-05	FUSE	T2A250V	
CN310			F06-2021-05	FUSE	T2A250V	
CN310			F50-0008-08	FUSE	T0.2A/250V	
L101, 102			L39-1303-08	PHASE COMPENSATION COIL		M
X301			L78-0617-08	RESONATOR		
X101			S76-0054-08	MAGNETIC RELAY		
R185, 186			RD14GB2E470J	FL-PROOF RD	J	1/4W
R197, 200			RD14GB2E680J	FL-PROOF RD	J	1/4W
R205, 206			RD14GB2E680J	FL-PROOF RD	J	1/4W
R207-210			RD14GB2E220J	FL-PROOF RD	J	1/4W
R215, 216			R90-0948-08	MULTI-COMP	K	3W
R227, 228			RS14GB3A100J	FL-PROOF RS	J	1W
R246			RS14GB3A561J	FL-PROOF RS	J	1W
R251, 252			RD14GB2E470J	FL-PROOF RD	J	1/4W

L: Scandinavia **K:** USA **P:** Canada
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R: Mexico
G: Germany

Δ indicates safety critical components.

KA-1080

SPECIFICATIONS

For U.K. and Europe

Continuous rated power output

(DIN) 1 kHz

at 8 Ω 60 W + 60 W

at 4 Ω 80 W + 80 W

(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.

at 8 Ω 60 W + 60 W

at 4 Ω 80 W + 80 W

Damping factor42 (50 Hz)

Total harmonic distortion

.....0.06 % (40 Hz ~ 20,000 Hz, 30 W, 8 Ω)

.....0.01 % (1 kHz, 60 W, 8 Ω)

Frequency response (IHF'78)

CD / TUNER / TAPE10 Hz ~ 60 kHz, +0 dB, -3 dB

PHONO 'RIAA' response...20 Hz ~ 20 kHz, +1.0 dB, -1.0 dB

Maximum input level

PHONO (MM)100 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM)70 dB (IHF '66)

CD / TUNER / TAPE.....97 dB (IHF '66)

PHONO (MM)57 dB (DIN, 50 mW output)

CD / TUNER / TAPE60 dB (DIN, 50 mW output)

Input sensitivity / impedance

PHONO (MM)2.5 mV / 47 k Ω

CD / TUNER / TAPE200 mV / 47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level+9 dB (at 100 Hz)

Output level / impedance

TAPE REC.....200 mV / 220 Ω

General

Power consumption160 W

DimensionsW : 440 mm

.....H : 123 mm

.....D : 395 mm

Weight (Net)7.0 kg

KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

For other countries

Continuous rated power output

(EIAJ) 1 kHz, 10 % T.H.D.

at 8 Ω 80 W + 80 W

at 4 Ω 110 W + 110 W

(DIN / IEC)

at 8 Ω 60 W + 60 W

at 4 Ω 80 W + 80 W

Damping factor42 (50 Hz)

Total harmonic distortion

.....0.06 % (40 Hz ~ 20,000 Hz, 30 W, 8 Ω)

.....0.01 % (1 kHz, 60 W, 8 Ω)

Frequency response (IHF'78)

CD / TUNER / TAPE10 Hz ~ 60 kHz, +0 dB, -3 dB

PHONO 'RIAA' response...20 Hz ~ 20 kHz, +1.0 dB, -1.0 dB

Maximum input level

PHONO (MM)100 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM)70 dB (IHF '66)

CD / TUNER / TAPE.....97 dB (IHF '66)

Input sensitivity / impedance

PHONO (MM)2.5 mV / 47 k Ω

CD / TUNER / TAPE200 mV / 47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level+9 dB (at 100 Hz)

Output level / impedance

TAPE REC.....200 mV / 220 Ω

General

Power consumption160 W

DimensionsW : 440 mm

.....H : 123 mm

.....D : 395 mm

Weight (Net)7.0 kg

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001499 074)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane # 07-00, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

10th Floor, Block B, Wisma Semantan, No. 12 Jalan Gelenggang, Bukit Damansara, 50490 Kuala Lumpur, Malaysia